Recovery Kernel

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[illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] (opioid withdrawal) [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] (MAT) [illegible] [illegible] [illegible] [illegible].

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[illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] 2[illegible] [illegible] — [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] 1 — [illegible] [illegible] MAT [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] (Medication-assisted treatment) — , [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. MAT [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible], [illegible] '[illegible] [illegible] [illegible] [illegible]' [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]. MAT [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] 8 [illegible] 9 [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] — [illegible] additive ([illegible]), [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible].

[illegible]

MAT [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].

[illegible] 2 — [illegible] [illegible]

[illegible]	[illegible] [illegible]	[illegible] [illegible]	[illegible]
[illegible] 6-24 ([illegible], [illegible] [illegible] [illegible] [illegible])	[illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible]	[illegible], [illegible] [illegible], [illegible], [illegible], [illegible]	[illegible], [illegible] [illegible], [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
			[illegible].
[illegible] 1-3 ([illegible] [illegible])	[illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible].	[illegible], [illegible], [illegible], [illegible] [illegible], [illegible] [illegible], [illegible] [illegible] [illegible], [illegible]	[illegible] [illegible] [illegible] MAT — [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] 0 [illegible].
[illegible] 3-10 ([illegible] [illegible] [illegible], [illegible] [illegible] [illegible])	[illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible], [illegible] (anhedonia), [illegible] [illegible], [illegible] [illegible], [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] (PHQ-9). [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible].
[illegible] 1-4	[illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible]; PAWS [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
			[illegible].
[illegible] 1-6	[illegible]; [illegible] [illegible] [illegible] [illegible]; [illegible]-[illegible] ([illegible] [illegible]) [illegible]	[illegible]; [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible]. [illegible] (9) [illegible] [illegible], [illegible].
[illegible] 6-18+	[illegible]-[illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible]; PAWS [illegible]; [illegible] [illegible].	[illegible] 12-18 [illegible], [illegible], [illegible] MAT [illegible].

[illegible] 3 — [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] mu-[illegible] [illegible] [illegible] 12-18 [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible]- [illegible] (PAWS) [illegible] 18-24 [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]-[illegible] [illegible] [illegible] [illegible].

[illegible]

[illegible] [illegible] [illegible] [illegible] PAWS [illegible] [illegible] - [illegible] [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible].

[illegible] 4 — [illegible] [illegible] [illegible] [illegible]

- [illegible] [illegible] [illegible], [illegible] [illegible]—[illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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- G-□□□□□□□□ OPRM1 □□□□□□□□ □□□□□□□□□□□□□ (□□□□□□□ 5) □□□□□□□□□□ □□□□□□□□ □□□□□□ □□□□□□□□□□□□ □□□□□ □□□□□□□□□ — □□□□□□□□□□ □□□□□□□□□ □□□□□□□□□□□□□□□□ □□□□□ □□□□ □□□□□□□□□□ □□□□□□□□□□□□ □□□□□□□ □□□□□□□□ □□□□□□□□□ □□□□□ □□□□□□□□□□□□□ □□□□□□□□□□, □□□□□□□□ □□□□□ □□□□□□□ □□□□□□ □□□□□□ □□□□□□□□ □□□□□ □□□□□□ □□□□□□□□, □□□□□□□□□□□□ □□□□□□□□□□□□□□□.

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OPRM1 (A118G)	□□□□□-□□□□□□□□□□ □□□□□□□□□□ □□□□□□□□□□□□□□□□ — □□□□□□□□□□□□□ □□□□□□□□ □□□□□□□□□ □□□□□□□□□□	□□□□□□□□ □□□□□□□ □□□□□□□ □□□□□□□□□ □□□□□□□□. □□- □□□□□□□□□□ □□□□□□□□□□ □□□□□□□□□ □□□□□□□□□□ □□□□□□□□□ - □□□□□ □□□□□□ □□□□□□ □□□□□□ □□□□□□ □□□□□ □□□□□□□□□□ □□□□□□□□ □□□□□ □□□□□□ □□□□□□□□□ □□□□□□□□□□, □□□□□□□□□□□□□ □□□□□□□□ □□□□□. □□□□ □□□□□□□ □□□□□ □□□□ □□□□□ □□□□□ (□□□□□□□□□, □□□□□□□□, □□□□□) □□□□□□□ □□□□□□□□□□□□- □□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□ □□□□□ □□□□□□□□□□□□□, □□□□□□□ □ □□□□□□□□□ □□□□□ □□□□ □□□□□□□□ □□□□□□□□□ □□□□□□□□□□□□□□□□□□ □□□□□□□ □□□□□ □□□□□□□□□□. □□□□□□□□□□: □□- □□□□□□□□□ □□□□□□□□□□□ □□□□□□ □□□□□□□□□□□□□□□□ □□□□□□□□□ - □□□□ □□□□□□□□□□□□ □□□□□ □□□□□□□□□□□□□□□□□□□□ □□□□□□□□, □□□□□□□ □□□□□□□□□□ □□□□□□ □□□□□□□□ □□□□□□ □□□□□□□□.
CYP2D6	□□□□□□□, □□□□□□□□□□□ □□□□□□ □□□□□□□□□□□□□□□□ □□□□□ □□□□□□□□□□ □□□□□	□□□□□□□□□□ □□□□□□□□□ (Poor metabolizers) □□□□□□□ □□□□□ □□□□□□□□□□□ □□□□□□ □□□□□□□

[illegible]	[illegible]	[illegible]
	[illegible]	[illegible], [illegible]. [illegible]-[illegible] (Ultra-rapid metabolizers) [illegible] — [illegible]. [illegible] MAT [illegible].
CYP3A4	[illegible], [illegible], [illegible]	[illegible], [illegible] MAT [illegible]. CYP3A4 [illegible] — [illegible] ([illegible], [illegible], [illegible]) [illegible] — [illegible]. CYP3A4 [illegible] MAT [illegible]. [illegible].
ABCB1 ([illegible]-[illegible])	[illegible]-[illegible]	[illegible] — [illegible] CNS [illegible], [illegible]. [illegible] CNS [illegible], MAT [illegible].
DRD2 (Taq1A, A1 [illegible])	[illegible]2 [illegible]	A1 [illegible] 30% [illegible] — [illegible]. OPRM1 G-[illegible], [illegible]-[illegible] [illegible] — [illegible].
COMT	[illegible]-[illegible]	[illegible] - COMT [illegible]

[illegible]	[illegible] [illegible]	[illegible] [illegible] [illegible]
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